

## THE ANDROID APP FOR WOMEN'S SECURITY WITH SMS ALERT

V. HIMA BINDU<sup>1</sup> & DR. B. KEZIA RANI<sup>2</sup>

<sup>1</sup>MCA, Adikavi Nannaya University, University College of Engineering, Rajamahendravaram, Andhra Pradesh, India

<sup>2</sup>Assistant Prof, Adikavi Nannaya University, University College of Engineering, Rajamahendravaram, Andhra Pradesh, India

### ABSTRACT

*In today's world, the number of people who use smart phones is growing rapidly, and a smart phone can be used effectively for personal security or for a variety of other protection purposes, such as raksha and desha. A number of new apps have been developed to provide women with security systems through their phones as a result of the heinous incident that outraged the entire nation. Every time the need arises, this Android Application for the Safety of Women can be activated with a single click. Using GOOGLE GEO LOCATION, one click on this app identifies the location and sends an SMS message containing the location to the registered contacts, as well as calling the registered contacts to assist the person who is in danger. This paper is o an Android application that must be installed in the mobile phone before it can be used. When a woman notices some potentially dangerous signs at any time, she simply opens the application and an alert template will be displayed, indicating whether the situation is safe or unsafe. When a woman selects the unsafe option when she feels threatened, a message (template) will be sent to the women's registered contacts, along with the woman's current location. The user's location coordinates and message information will be sent to the first five people who sign up for the service. This application has been created with the current information environment in mind. This app is very user-friendly and simple to operate, and it can be used by all types of users to update their information and registered contacts details in the database.*

**KEYWORDS:** *Android App, Alert Message, Harassment, Smartphone & Women Security*

**Received:** Aug 05, 2021; **Accepted:** Aug 25, 2021; **Published:** Sep 07, 2021; **Paper Id:** IJCSEITRDEC20219

### 1. INTRODUCTION

Women are accomplished in regular mobilization by various organizations. They frequently operate in racial, holy, thoughtful and intellectual divisions to promote peace of mind. It is now that the significance of the safety of women have to acknowledge that they should be guarded properly. When compared to males, physically, a woman is less strong in a crisis scenario and requires a helping hand to alleviate her. The greatest method to reduce chances to become victims of violent crime is by identifying and using services to assist out of dangerous circumstances (robbery, sexual abuse, rape, domestic violence). Whether you're in immediate danger or become separated from your friends in the night and don't know how to go home, these applications can reduce your risk and help you if you want to. In the face of the recent incident in Delhi, which has shocked the country and awakened us to our daughters' safety problems, the public is preparing to strike back on various levels. A swarm of new applications were created to offer ladies security systems on their phones. Here we offer a web application that guarantees women's safety. It lowers the risk and helps us determine where the individual is at risk. We as an independent country have to guarantee that women are respected and safe, and we cannot deny them that fundamental right. It is now time to take action to eliminate the threat of women's security problems. In society, prevention of violence against women is an integral part, both as a daily reality and as a challenging circumstance. Gender justice is not

conceivable in a society where, regardless of culture, religion, socio-economic status and education, at least one in three women endure violence in their lifetime. Only until all women have protection and freedom from violence will our nation be a genuine democracy. This system provides greater security than current computerized systems, and offers consumers a more user-friendly environment. When the mobile device is shaken, this system sends a message to all cells that have this application. Plays the sound even in quiet mode on the guardian cell. This mechanism sends a notice to the police station as well.

## **2. GENERAL STUDIES**

Women's security is a problem that is increasing. Have read of numerous terrible instances with ladies and the incidence is rising. Women are working women now days and globalization has brought gender equality to our attention. Women were formerly confined to domestic tasks exclusively. Women compete with males in all professions with the changing situation.

It can witness women at high levels of accomplishment in all areas whether they be business, science, education, enterprise or any other field. Women's safety concerns a lot whether at home, outside the house or at work. The last several atrocities against women, particularly in Delhi, were extremely dreadful and frightening. Because of these incidents, the safety of women has become an important issue. According to the data, trauma was discovered every two women out of three in the past year.

According to the women's study, women lose their confidence due to such occurrences. A study by the Women and Child Development Department of the government in Delhi found that around 80 per cent of women in the national capital fear their security.

Women are harassed at home, work places or other locations, such as streets, clubs etc, not just during the night or at night, but also during the day. The survey shows the safety concern is due to the absence of a gender-friendly environment and poor functional infrastructure such as alcohol and drug consumption in open areas; lack of adequate lighting, safe public toilets, sidewalks, lack of effective police, absence of proper number of helplines etc.

A significant proportion of women have little confidence that police can stop such instances of harassment. This issue of women's security has to be understood and resolved urgently so that they may likewise develop in their own nation as males.

## **3. PROPOSED SYSTEM**

The system suggested will be implemented using the android application. This app will notify the people around, who have this application by sending warning messages to them and alerting them to the mobile guard's sound when the victims' mobile phones are shaken. This also shows the victim's position by using the GOOGLE GEO LOCATION tracker technology. She may not be present at this location practically after some time. This program's unique feature is that the location is constantly transmitted every five minutes until the button "STOP" is clicked in the application, to create a method for android users to monitor several apps.

This programme utilizes GOOGLE GEO LOCATION to detect the situation and split the system into two modules:

- The first module may be the victim's phone, i.e. the root device that utilises 3G/2G data to monitor the victim

position via GOOGLE GEO LOCATION.

- Second module may be registered contacts' mobile phone either by police or family members receiving a message from the mobile app providing the URL of the victim's position.

## 4. METHODOLOGY

The methodology that was implemented is to register in the app

### Admin

This admin module will manage how many guardians and users are in this system.

### User

This user module sends warning messages to them and alerting them to the mobile guard's sound while the users' mobile phones are shaken.

### Guardian

In this guardian module that has this application user are in not safe position message will delivery to the guardian.

## 5. RESULTS

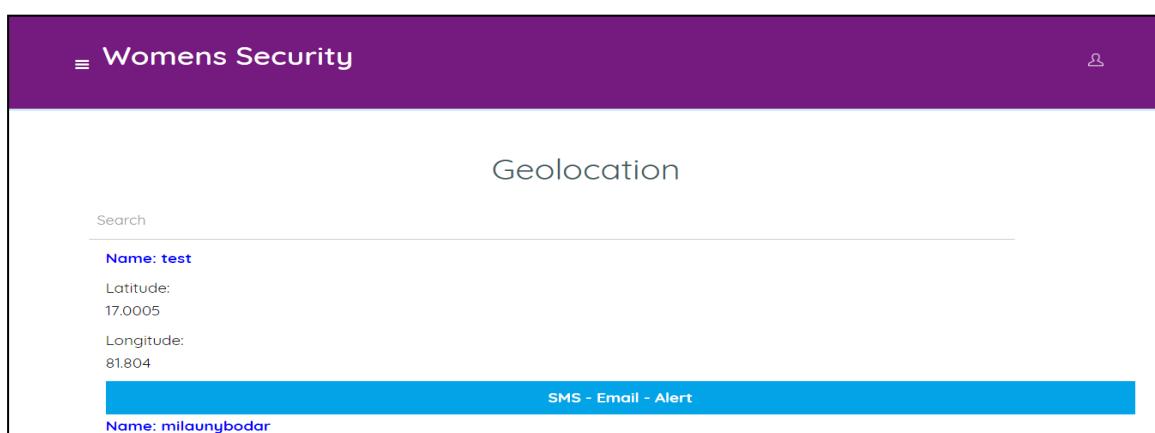


Figure 5.1: Send GEO Location to Guardians.

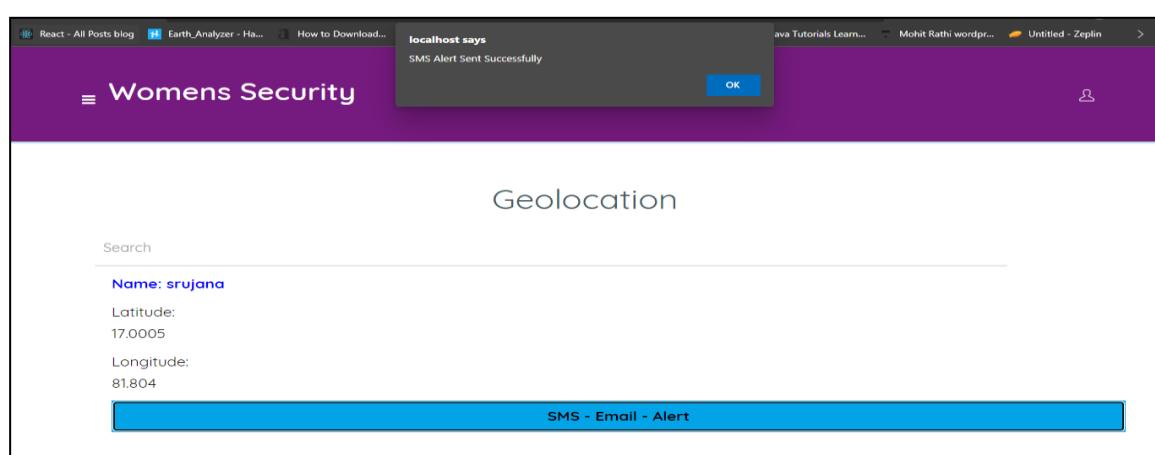
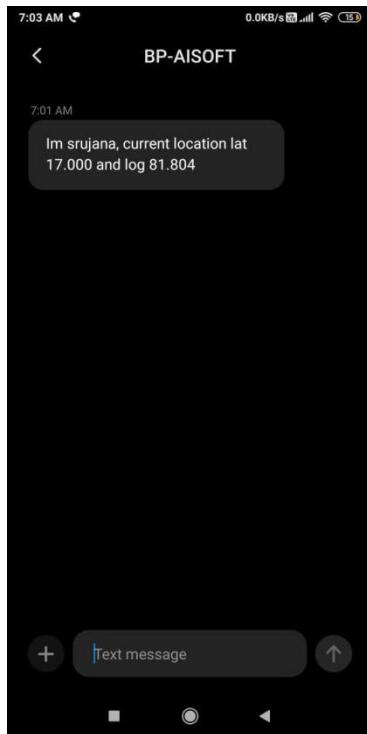


Figure 5.2: Location Sending.



**Figure 5.3: SMS Received by user.**

## 6. CONCLUSIONS

This is the "Web application for the security system for women," which is especially useful for applications relating to the safety of young girls. It is possible to transmit the location to our family members and police stations by shaking our cell phones. This system broadcasts a message to all adjacent cells that are running the same application at the same time. The entire structure is designed to ensure the safety of women.

## REFERENCES

1. Pasha S., Kavana J., Mangala G.K.R., Nischitha K., Surendra B.K., Rakshitha M.S. (2016). *BSecure for women: an android application*, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 5, pp. 8073-8080.
2. Saranya N., Karthik K. (2015). *Women safety application using android mobile*, International Journal of Engineering Science and Computing, pp. 1317-1319.
3. Thota B., Kumar U.K.P. (2015). *Sauver: an android mobile for women safety*, International Journal of Technology Enhancements and Emerging Engineering Research, Vol. 3, No. 05, pp. 122-126.
4. Pawar V., Wankhade N.R., Nikam D., Jadhav K., Pathak N. (2014). *SCIWARS android app for women safety*, International Journal of Engineering Research and Application, Vol. 4, No. 3 (Version 1), pp. 823-826.
5. Mandapati S., Pamidi S., Ambati S. (2015). *A mobile based women safety application (I safe apps)*, IOSR Journal of Computer Engineering, Vol. 17, No. 1 (Version 1), pp. 29-34.
6. Uma D., Vishakha V., Ravina R., Rinku B. (2015). *An android application for women safety based on voice recognition*, International Journal of Computer Science and Mobile Computing, Vol. 4, No. 3, pp. 216-220.
7. Paradkar A., Sharma D. (2015). *All in one intelligent safety system for women security*, International Journal of Computer

*Applications*, Vol. 130, No. 11.

8. *Sharma K., More A. (2016). Advance woman security system based on android, IJIRST – International Journal for Innovative Research in Science & Technology, Vol. 2, No. 12.*
9. *Poddar T., Ritesh C, Bharath Nagaraja (2015). Using wearable technology to answer women's safety, International Journal of Science, Technology & Management, Vol. 04, No. 05.*
10. *Westmarland N., Hardey M. (2013). Protecting women's safety? The use of smartphone 'apps' in relation to domestic and sexual violence, Durham University, Durham centre for research into violence and abuse.*
11. *Divya S., Viniitha M., Logeshwari B., Indumathi P, A women secure mobile app for emergency usage (go safe app), IJRET: International Journal of Research in Engineering and Technology, Vol. 05, No. 03.*
12. *Akshata V.S., Pathan R., Patil P., Nadal F. (2014). B'safe & B'secure the door to safety swings, International Journal of Core Engineering & Management, Vol. 1, No. 7.*
13. *Kumawat, Sunita, Anjali Kumawat, and Anil Kumar Sharma. "Intrusion Detection System and Prevention System in Cloud Computing using Snort." International Journal of Computer Engineering and Information Technology Research 5.6 (2015): 31-40.*
14. *Hashami, Muhammad Faisal. "Challenges and Risks Faced by the Public Sector Working Women in Tehsil: Daska, District: Sialkot-Pakistan." International Journal of Humanities and Social Sciences (IJHSS) 5.6 (2016): 145-160.*

